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Chief, Procurement Division, OL Contracts Administration Branch ATTN:

Chief, Engineering Staff, OC

Contract 051-1045-9, T.O. 16-20087-9

12 NOV 1959

Elizabeth S. S.

1. Under the terms of the subject contract, has submitted the prototype OS-5, beat frequency oscillator. The prototype unit was evaluated and rejected by the Agency.

2. The equipment was returned to the contractor on 2 November 1959 with the instructions to make the necessary equipment modifications as outlined in Attachment A. As a result, the contractor agreed to resubmit the prototype unit by approximately 18 November 1959.

Attachment:

Attachment A (ME OC-E/F-D-EP/RE:mjr (6 Nov. 59)

Distribution:

Original and 1 w/attachment R+D Subject File w/attachment OC-E Chrono w/o attachment R+D Chrono w/o attachment EP Chrono w/attachment

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COMPLETE

ATTACHMENT A

Con	lusi	one							
The reg	rding:		08-5	prototype	compares	favorably	with t	he R+D	08-5
	(1) (2) (3)	size weight eircu	t Ltary				·		
The R+D	08-5	regard		prototype	does not	compare fo	ldsrova	y vith	the
	(1)	bette	Maa La Bo	ver require	ements				

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Recommendations

The prototype 08-5 should be improved by adjusting the biases on the 2N135 transistor circuit. The prototype uses a oscillator coil which is different from the type used in the R+D model. This may account for the increase in battery current which the prototype requires and for the loss of output voltage.

The slug in the oscillator coil changes its position because it does not fit properly in the coil. A larger slug which fits the coil form should be used or the present slug should be sealed in position after tuning the oscillator to $455~\rm kc$.

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